

Form PTO-1449 (modified)

Atty. Docket No.  
11899.0155.DVUS02  
(MOBT:155-3)

Serial No.

**List of Patents and Publications for Applicant's**  
**INFORMATION DISCLOSURE STATEMENT**  
(Use several sheets if necessary)

**Applicant**  
Kenneth J. Gruys; Timothy A. Mitsky; Ganesh M. Kishore; Steven C. Slater; Stephen R. Padgette; David M. Stark

Filing Date: August 30, 2001

Group:

1638

U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1</i>
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**U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Clas s	Filing Date of App.
OK	A1	5,416,011	05/16/95	Hinchee et al.	435 800	1723 294	11/23/93
OK	A2	5,502,273	03/26/96	Bright et al.	800	205 304	08/28/94

**Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
OK	B1	WO 87/02984	05/21/87	WIPO	C07H	21/04	
	B2	WO 91/18995	12/12/91	WIPO	C12P	7/62	
	B3	WO 92/19747	11/12/92	WIPO	C12N	15/82	
	B4	WO 93/06225	04/01/93	WIPO	C12P	7/44	
	B5	WO 94/02620	02/03/94	PCT	C12N	15/82	
	B6	WO 94/11519	05/26/94	WIPO	C12N	15/82	
	B7	WO 95/05472	02/23/95	WIPO	C12N	15/85	
	B8	WO 95/19442	07/20/95	WIPO	C12N	15/60	
	B9	WO 95/27068	10/12/95	PCT	C12N	15/82	
	B10	WO 94/12652	06/09/94	WIPO	C12N	15/82	
	B11	GB 2272904	06/01/94	Great Britain	C12N	15/82	
	B12	DE 1966923	05/15/75	Germany	C12N	15/82	No
	B13	EP 0304293	02/22/89	EPO	C12N	15/82	
OK	B14	EP 0440165	08/07/91	EPO	C12N	15/82	

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*Dave Thuse*

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### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
<i>DK</i>	C1	1998 Unpublished laboratory results performed by Steven C. Slater, Monsanto Company, (the results describe cross-hybridization experiments between <i>phbA</i> and <i>bktB</i> DNA sequences).
	C2	Marton, L. et al, "Facile Transformation of Arabidopsis", <i>Plant Cell Rep</i> 10(5):235-239; (1991).
	C3	Database DISSABS AN 96:13604 (1995) Bunnag, Sumonthip (Ph.D.) "Somaclonal Variation, Regeneration and Transformation of Quince ( <i>Cydonia Oblonga</i> Mill.) and Pear ( <i>Pyrus Communis</i> L.)"; - Abstract only.
	C4	Priefert et al., (1992) "Identification and Molecular Characterization of the Acetyl Coenzyme A Synthetase Gene ( <i>acoE</i> ) of <i>Alcaligenes eutrophus</i> ," <i>Journal of Bacteriology</i> , 174:6590-6599
	C5	Steinbüchel,(1991), "PolyhydroxyalkanoicAcids," <i>Biomaterials</i> , Stockton Press, New York, 125-213
	C6	Fry et al., (1987) "Transformation of <i>Brassica napus</i> with <i>Agrobacterium tumefaciens</i> based vectors," <i>Plant Cell Reports</i> , 6:321-325
	C7	Mourad et al., (1995) "L-O-Methylthreonine-Resistant Mutant of <i>Arabidopsis</i> Defective in Isoleucine Feedback Regulation," <i>Plant Physiology</i> , 107:43-52
	C8	Taillon et al., (1988) "Analysis of the functional domains of biosynthetic threonine deaminase by comparison of the amino acid sequences of three wild-type alleles to the amino acid sequence of biodegradative threonine deaminase," <i>Gene</i> , 63:245-252
	C9	Bisswanger, (1981), "Substrate Specificity of the Pyruvate Dehydrogenase Complex from <i>Escherichia coli</i> ," <i>Journal of Biological Chemistry</i> , 256:815-822
	C10	Nawrath et al., (1994) "Targeting of the polyhydroxybutyrate biosynthetic pathway to the plastids of <i>Arabidopsis thaliana</i> results in high levels of polymer accumulation," <i>Proceedings of National Academy of Science USA</i> , 91:12760-12764
<i>DK</i>	C11	Poirier et al., (1992) "Polyhydroxybutyrate,a Biodegradable Thermoplastic, Produced in Transgenic Plants," <i>Science</i> , 256:520-523

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*Wm. Bruce Chase*

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### **Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

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<i>DK</i>	C12	Haywood <i>et al.</i> , (1988) "Characterization of two 3-ketothiolases possessing differing substrate specificities in the polyhydroxyalkanoatesynthesizing organism <i>Alcaligenes eutrophus</i> ," <i>Federation of European Microbiological Societies</i> , 52:91-96
	C13	Manchak <i>et al.</i> , (1994) "Control of polyhydroxyalkanoatesynthesis in <i>Azotobacter vinelandii</i> strain UWD," <i>Microbiology</i> , 140:953-963
	C14	Rhie <i>et al.</i> , (1995) "Role of <i>fadR</i> and <i>atoC</i> (Con) Mutations in Poly(3-Hydroxybutyrate-Co-3-Hydroxyvalerate)Synthesis in Recombinant <i>pha<sup>+</sup> Escherichia coli</i> ," <i>Applied and Environmental Microbiology</i> , 61:2487-2492
	C15	Eisenstein <i>et al.</i> , (1995) "An Expanded Two-State Model Accounts for Homotropic Cooperativity in Biosynthetic Threonine Deaminase from <i>Escherichia coli</i> ," <i>Biochemistry</i> , 34:9403-9412
	C16	Feldberg <i>et al.</i> , (1971) "L-Threonine Deaminase of <i>Rhodospirillum rubrum</i> , Purification and Characterization," <i>European Journal Biochemistry</i> , 21:438-446
	C17	Eisenstein, (1991) "Cloning, Expression, Purification, and Characterization of Biosynthetic Threonine Deaminase from <i>Escherichia coli</i> ," <i>Journal of Biological Chemistry</i> , 266:5801-5807
	C18	Nakamura <i>et al.</i> , (1992) "Biosynthesis of poly(3-hydroxyalkanoate)from amino acids," <i>International Journal of Biological Macromol.</i> , 14:321-325
	C19	Galili, (1995) "Regulation of Lysine and Threonine Synthesis," <i>The Plant Cell</i> , 7:899-906
	C20	Slater <i>et al.</i> , (1988) "Cloning and Expression in <i>Escherichia coli</i> of the <i>Alcaligenes eutrophus</i> H16 Poly-β-Hydroxybutyrate Biosynthetic Pathway," <i>Journal of Bacteriology</i> , 170:4431-4436
	C21	Slater <i>et al.</i> , (1992) "Production of Poly-(3-Hydroxybutyrate-Co-3-Hydroxyvalerate)n a Recombinant <i>Escherichia coli</i> Strain," <i>Applied and Environmental Microbiology</i> , 58:1089-1094
<i>DK</i>	C22	Schubert <i>et al.</i> , (1988) "Cloning of the <i>Alcaligenes eutrophus</i> Genes for Synthesis of Poly-β-Hydroxybutyric Acid (PHB) and Synthesis of PHB in <i>Escherichia coli</i> ," <i>Journal of Bacteriology</i> , 170:5837-5847

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<i>DK</i>	C23	Peoples <i>et al.</i> , (1989) "Poly-β-hydroxybutyrate(PHB) Biosynthesis in <i>Alcaligenes eutrophus</i> H16," <i>Journal of Biological Chemistry</i> , 264:15293-15297
	C24	Peoples <i>et al.</i> , (1989) "Poly-β-hydroxybutyrate Biosynthesis in <i>Alcaligenes eutrophus</i> H16," <i>Journal of Biological Chemistry</i> , 264:15298-15303
	C25	Barwale <i>et al.</i> , (1986) "Plant regeneration from callus cultures of several soybean genotypes via embryogenesis and organogenesis," <i>Planta</i> , 167:473-481
	C26	Cakmak <i>et al.</i> , (1989) "Effect of Zinc Nutritional Status on Growth, Protein Metabolism and Levels of Indole-3-acetic Acid and other Phytohormones in Bean ( <i>Phaseolus vulgaris</i> L.)," <i>Journal of Experimental Botany</i> , 40:405-412
	C27	Wright <i>et al.</i> , (1986) "Plant regeneration by organogenesis in <i>Glycine max</i> ," <i>Plant Cell Reports</i> , 5:150-154
	C28	Barwale <i>et al.</i> , (1986) "Screening of <i>Glycine max</i> and <i>Glycine soja</i> genotypes for multiple shoot formation at the cotyledonary node," <i>Theoretical Applied Genetics</i> , 72:423-438
	C29	Wright <i>et al.</i> , (1987) "Regeneration of soybean ( <i>Glycine max</i> L. Merr.) from cultured primary leaf tissue," <i>Plant Cell Reports</i> , 6:83-89
	C30	Kim <i>et al.</i> , (1994) "Synergistic effects of proline and inorganic micronutrients and effects of individual micronutrients on soybean ( <i>Glycine max</i> L. Merr.) shoot regeneration in vitro," <i>Journal Plant Physiology</i> , 144:726-734
	C31	Yang <i>et al.</i> , (1990) "Comparative studies of organogenesis and plant regeneration in various soybean explants," <i>Plant Science</i> , 72:101-108
	C32	Chee <i>et al.</i> , (1989) "Transformation of soybean ( <i>Glycine max</i> ) by infecting germinating seeds with <i>Agrobacterium tumefaciens</i> ," <i>Plant Physiology</i> , 91:1212-1218
<i>DK</i>	C33	Christou <i>et al.</i> , (1992) "Prediction of germ-line transformation events in chimeric Ro transgenic soybean plantlets using tissue-specific expression patterns," <i>The Plant Journal</i> , 2:283-290

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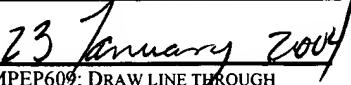
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	C34	Falco <i>et al.</i> , (1995) "Transgenic canola and soybean seeds with increased lysine," <i>Bio/Technology</i> , 13:477-582
	C35	Finer <i>et al.</i> , (1991) "Transformation of soybean via particle bombardment of embryogenic suspension culture tissue," <i>In Vitro Cell. Dev. Biol.</i> , 27P:175-182
	C36	Hinchee <i>et al.</i> , (1988) "Production of transgenic soybean plants using Agrobacterium-mediated DNA transfer," <i>Bio/Technology</i> , 6:915-922
	C37	McCabe <i>et al.</i> , (1988) "Stable transformation of soybean ( <i>Glycine max</i> ) by particle acceleration," <i>Bio/Technology</i> , 6:923-926
	C38	Owens <i>et al.</i> , (1985) "Genotypic variability of soybean response to Agrobacterium strains harboring the Ti or Ri plasmids," <i>Plant Physiology</i> , 77:87-94
	C39	Parrott <i>et al.</i> , (1994) "Recovery and evaluation of soybean plants transgenic for a <i>Bacillus thuringiensis</i> var. <i>Kurstaki</i> insecticidal gene," <i>In Vitro Cell. Dev. Biology</i> , 30P:144-149
	C40	Padgette <i>et al.</i> , (1995) "Development, identification and characterization of a glyphosate-tolerant soybean line," <i>Crop Science</i> , 35:1451-1461
	C41	Cheng <i>et al.</i> , (1980) "Plant regeneration from soybean cotyledonary node segments in culture," <i>Plant Science Letters</i> , 19:91-99
	C42	Doi, Yoshiharu, (1995) "Microbial Synthesis, Physical Properties, and Biodegradability of Polyhydroxyalkanoates," <i>Macromol. Symp.</i> 98:585-599.
	C43	Poirier, Yves, <i>et al.</i> , (1995) "Production of Polyhydroxyalkanoates,a Family of Biodegradable Plastics and Elastomers, in Bacteria and Plants," <i>Bio/Technology</i> 13:142-150.
	C44	Poirier, Yves, <i>et al</i> (1992) "Perspectives on the production of Polyhydroxyalkanoatesinplants," <i>FEMS Microbiology Reviews</i> 103:237-246..
	C45	Radke, S.E., <i>et al.</i> (1988) "Transformation of <i>Bassica napus</i> L. using Agrobacterium tumefaciens: developmentally regulated expression of a reintroduced napin gene," <i>Theor. Appl. Genet.</i> 75:685-694.

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<i>DJ</i>	C46	LaRossa, R.A., <i>et al.</i> (1987) "Toxic accumulation of alpha-ketobutyrate caused by inhibition of the branched-chain amino acid biosynthetic enzyme acetolactate synthase in <i>Salmonella typhimurium</i> ," <i>JBC</i> 169:1372-1378.
	C47	Taillon, B.E., <i>et al.</i> (1988) "Analysis of the functional domains of biosynthetic threonine deaminase by comparison of the amino acid sequences of three wild-type alleles to the amino acid sequence of biodegradative threonine deaminase," <i>Gene</i> 3:245-252
	C48	Lawther, R.P., <i>et al.</i> (1987) "The complete nucleotide sequence of the ilvGMEDA operon of <i>Escherichia coli</i> K-12, <i>Nucl. Acids Res.</i> 15:2137-2155.
	C49	Colau D. <i>et al.</i> (1987) "Complementation of a threonine dehydratase-deficient <i>Nicotiana plumbaginifolia</i> mutant after <i>Agrobacterium tumefaciens</i> -mediated transfer of the <i>Saccharomyces cerevisiae</i> ILV1 gene", <i>Mol. Cell Biol.</i> 7:2552-2557.
<i>DK</i>	C50	Hirt, T. <i>et al.</i> (1996) "Telechelic diols from poly (R)-3-hydroxybutyric acid and poly (R)-3-hydroxybutyric-co-poly (R)-3-hydroxyvaleric acid" <i>Macromol. Chem. Phys.</i> 197(5): 1609-1614.
	C51	

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